POPEYE SAVES THE EARTH

Operators Handbook

Midway Manufacturing Company 3401 North California Avenue Chicago, Illinois 60618

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FUSE LIST1:

MENU SYSTEM OPERATION

The Main Menu allows you to choose from several categories, which in turn lead to other menus. To access the Main Menu, open the coin door and press the Begin Test button, then press the Enter button. Press the Up or Down buttons to cycle through the Main Menu. Press the Enter button to access a menu. Press the Escape button to return to the Main Menu. Press the Start button for HELP at any time.

B. Bookkeeping Meru B. 1 Main Audits B. 2 Earnings Audits B. 3 Standard Audits B. 4 Feature Audits B. 5 Histograms B. 6 Time-Stamps P. Printouts Menu P. 1 Earnings Deta P. 2 Main Audits P. 3 Standard Audits P. 3 Standard Audits P. 4 Feature Audits P. 5 Score Histograms P. 6 Game Time Histograms P. 7 Time-Stamps P. 7 Time-Stamps P. 8 All Deta T. 2 Switch Levels T. 3 Single Switches T. 4 Solenoid Test T. 5 Fisaher Test T. 6 General illumination T.7 Sound & Music Test T. 8 Single Lampe T. 9 All Lamps T. 10 Lamp & Plasher Test T. 11 Display Test T. 12 Pipper Test T. 13 Ordered Lamp Test T. 14 Lodup Test T. 15 Wheel Test T. 15 Clear Ball Test U. Utilities Menu U. 1 Clear Audits U. 2 Clear Coins U.3 Resert H. S. T. D. U.4 Set Time & Date U.5 Custom Message U.5 Set Game 1.D. U.7 Factory Adjustments U.8 Factory Resets U.9 Presets U.11 Audit Burn In	Main Menu	
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A.3 Pricing Adjustments		
A.4 H.S.T.D. Adjustments		
A.5 Printer Adjustments		
7.50 / 11.00 / 11.00		

Press Escape
To move out of a menu selection.

Press Enter
To get into a menu selection.

Press Up Increases sequence; Example A.1, A.2, A.3, A.4.

Press Down Decreases Sequence; Example A.4, A.3, A.2, A.1.

Use Up and Down to cycle through the selections in a menu.

Use Escape and Enter to move into and out of the selected menu

LAMP MATRIX

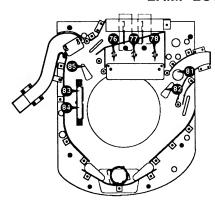
						Yellow (B+) _&	Red	
R	Column	1 Yellow- Brown J138-1 Q98	2 Yellow- Red J138-2 Q97	3 Yellow- Orange J138-3 Q96	4 Yellow- Black J138-4 Q95	5 Yellow- Green J138-5 Q94	6 Yellow- Blue J138-6 Q93	7 Yellow- Violet J138-7 Q92	8 Yellow- Gray J138-9 G91
1	Red- Brown J134-1 Q90	Left Lane 11	Island Rhino 21	Lockjaw 31	Spilko Oil Co.	Left Loop Arrow 51	"Sea" Standup 61	Backbox Tail 71	Upper Extra Ball 81
2	Red- Black J134-2 Q89	Center Lane 12	Island Leopard 22	Never Green Co. 32	Blutonium Waste 42	Left Loop Can 52	Animal Dolphin 62	Backbox Star 72	Wimpy 2X Wheel 82
3	Red- Orange J134-4 Q88	Right Lane 13	island Eagle 23	Earth Paving Co. 33	Left Outlane 43	Popeye "P1"	Left Popper Arrow 63	Animal Rhino 73	Two Bank Upper 83
4	Red- Yellow J134-5 Q87	Fight Bluto 14	Island Dolphin 24	Escalator Enter 34	Left Flipper Lane	Papeye "O" 54	Instant Multi-ball 64	Backbox Right 74	Two Bank Lower 84
5	Red- Green J134-6 Q68	Right Popper Can	Item Can Opener 25	Popeye "E1" 35	Right Flipper Lane 45	Popeye "P2" 55	Left Cheek 65	Animal Eagle 75	Animal Jackpot 85
8	Red- Blue J134-7 Q65	Right Loop Arrow	Item Bottle 26	Popeye "Y"	Special 46	Left Ramp Arrow 56	Right Cheek	Upper Ramp Left 76	Buy-in 86
7	Red- Violet J134-8 Q84	Right Loop Can	Item Katsup 27	Popeye "E2" 37	Shoot Again 47	Collect Item 57	Animal Panda 67	Upper Ramp Center	Launch Button 87
8	Red- Gray J134-9 Q83	"Hag" Standup 18	island Panda 28	Item Flower 38	Rescue Olive 48	Left Ramp Can 56	Animal Leopard	Upper Ramp Right 78	Start Button 88

J1XX = Power Driver Board

LAMP LOCATIONS

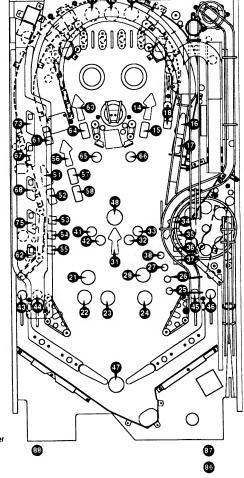
item No.	Bulb No.	Lamp Assy. No.	Description	item. No.	Buib No.	Lamp Assy. No.	Description
11	24-8768	A-17624	Left Lane	31	24-8768	A-17602	Lockjaw
12	24-8768	A-17624	Center Lane	32	24-8768	A-17602	Never Green Co.
13	24-8768	A-17624	Right Lane	33	24-8768	A-17602	Earth Paving Co.
14	24-8768	A-17600	Fight Bluto	34	24-8768	A-17602	Escalator Enter
15	24-8768	A-17600	Right Popper Can	35	24-8768	A-17602	Popeye "E1"
16	24-8768	A-17600	Right Loop Arrow	36	24-8768	A-17602	Popeye "Y"
17	24-8768	A-17600	Right Loop Can	37	24-8768	A-17602	Popeye "E2"
18	24-8768	A-17600	"Hag" Standup	38	24-8768	A-17602	Item Flower
21	24-8768	A-17602	Island Rhino	41	24-8768	A-17602	Spillco Oil Co.
22	24-8768	A-17602	Island Leopard	42	24-8768	A-17602	Blutonium Waste
23	24-8768	A-17602	Island Eagle	43	24-6549	A-17835	Left Outlane
24	24-8768	A-17602	Island Dolphin	44	24-6549	A-17835	Left Flipper Lane
25	24-8768	A-17602	Item Can Opener	45	24-6549	A-17835	Right Flipper Lane
26	24-8768	A-17602	Item Bottle	46	24-6549	A-17807	Special
27	24-8768	A-17602	Item Katsup	47	24-6549	A-17807	Shoot Again
28	24-8768	A-17602	Island Panda	48	24-6549	A-17807	Rescue Olive

LAMP LOCATIONS Continued



item No.	Bulb No.	Lamp Assy. No.	<u>Description</u>
51	24-6549	A-17807	Left Loop Arrow
52	24-6549	A-17835	Left Loop Can
53	24-8768	A-17603	Popeye "P1"
54	24-8768	A-17603	Popeye "O"
55	24-8768	A-17603	Popeye "P2"
56	24-6549	A-17835	Left Ramp Arrow
57	24-6549	A-17835	Collect Item
58	24-6549	A-17835	Left Ramp Can
61	24-6549	A-17835	"Sea" Standup
62	24-8768	A-12887	Animal Dolphin
63	24-6549	A-17835	Instant Multi-ball
64	24-6549	A-17835	Left Popper Can
65	24-6549	A-17807	Left Cheek
66	24-6549	A-17807	Right cheek
67	24-8768	A-12887	Animal Panda
68	24-8768	A-12887	Animal Leopard
71	24-8768		 Backbox Tail
72	24-8768		 Backbox Star
73	24-8768	A-12887	Animal Rhino
74	24-8768		 Backbox Right
75	24-8768	A-12887	Animal Eagle
76	24-6549	A-11905	† Upper Ramp Left
77	24-6549	A-11905	† Upper Ramp Cente
78	24-6549	A-11905	† Upper Ramp Right
81	24-6549	A-17836	Upper Extra Ball
82	24-6549	A-17835	Wimpy 2X Wheel
83	24-8768	A-17853	Two Bank Upper
84	24-8768	A-17853	Two Bank Lower
85	24-6549	A-17835	Animal Jackpot
86	20-9663-9		Buy-In
87	20-9663-B	-4	Launch Button
88	20-9663-1		Start Button

* Not Shown † Associated Parts: A-12753-2 Lug & Diode



24-8768 = #555 Bulb 24-6549 = #44 Bulb

SWITCH MATRIX

							White	-	Green	
Dedicated Grounded Switches	Column	1 Green- Brown J207-1 U20-18	2 Green- Red J207-2 U20-17	3 Green- Orange J207-3 U20-16	4 Green- Yellow J207-4 U20-15	Green- Black J207-5 U20-14	6 Green- Blue J207-6 U20-13	7 Green- Violet J207-7 U20-12	8 Green- Gray J207-9 U20-11	Flipper Grounded Switches
Orange-Brown (1) J206-1	1 White- Brown J209-1 U18-11	Left Lane	Stam Tift	Left Popper	Two Benk	Right Trough	Left Cheek 61	Popeye *P1*	Upper Edif To Wheel	Black-Green J906-1 Right Flipper End of Stroke F1
Left Coin Chute D1 Orange-Red (2) J205-2 Center Coin Chute D2	2 White- Red J209-2 U18-9	Buy-In	Coin Door Closed	Sti Right Popper	Center Lane	Trough 2nd	Right Cheek	Popeye "O"	Upper Plemp Left	Biue-Violet J905-1 Right Filpper Opto F2
Orange-Black (3) J206-3 Right Coin Chute D3	3 White- Orange J209-3 U18-5	Start Buffon	Ball Launch 23	Plight Loop Opto	Lockup Upper	Trough 3rd	Escalator Exit	Popeye "P2"	Upper Remp Right 82	Black-Blue J906-3 Left Filpper End of Stroke F3
Orange-Yellow (4) J205-4 4th Coin Chute D4	4 White- Yellow J209-4 U18-7	Plumb Bob Tilt 14	Always Closed	Flamp Entrance	Locicup Center	Trough 4th 64	Animal Dolphin 64	Left Outlane 74	Animal Jackpot 84	Blue-Gray J905-2 Left Flipper Opto F4
Orange-Green (5) J205-6 Normal Test Function Function Services Credits Escape D6	5 White- Green J209-5 U19-11	Pight Lane	Left Loop 25	Ramp Completion	Lockup Lower	Trough 5th	Animal Eagle	Left Flipper Lane 76	Right Outlane 86	Black-Violet J908-4 Upper Right Flipper End of Stroke F5
J205-7 Nomel Test Function Function Volume Down Down D6	6 White- Blue J209-7 U19-9	Left Jet 16	Popeye "E1"	Escalator Popper	Wheel Opto 1	Left Trough	Animal Tiger	Left Slingshot 76	Shooter Lane 86	Black-Yellow J905-3 Upper Right Filipper Opto F6
Orange-Violet (7) J206-8 Normal Test Function Function Volume Up Up D7	7 White- Violet J209-8 U19-5	Plight Jet 17	Popeye *Y*	Wheel Ext	Wheel Opto 2	Trough Jam 67	Animal Panda 67	Right Stingshot 77	Lock-up Kicker 87	Black-Gray J908-5 Upper Left Flipper End of Stroke F7
Orange-Gray (8) J206-8 Normal Test Function Begin Test Enter D6	8 White- Gray J209-9 U19-7	Center Jet	Popeye "E.2" 28	"Heg" Standup 38	Wheel Opto 3	'Sea' Standup 58	Animal Pihino 68	Right Flipper Lane 78	Upper Shot Exit	Black-Blue J905-5 Upper Left Filipper Opto F8

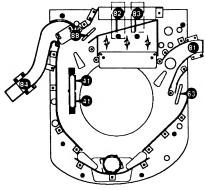
J2XX = CPU Board, J6XX = Fliptronic II Board

= Opto, Typically Closed

SWITCH LOCATIONS

		OWITOITEGO	711011	•	
<u>item</u>	Switch Part #	Where Used	item	Switch Part #	Where Used
F1	SW-1A-194	*Lower Right Flipper EOS	32	A-16908 (LED)	Right Popper
F2	A-17316	*Lower Right Flipper Cabinet		A-16909 (Trans.)	
F3	SW-1A-194	*Lower Left Flipper EOS	33	A-16908 (LED)	Right Loop Opto
F4	A-17316	*Lower Left Flipper Cabinet		A-16909 (Trans.)	
F5	SW-1A-194	*Upper Right Flipper EOS	34	A-16908 (LED)	Ramp Entrance
F6	A-17316	*Upper Right Flipper Cabinet		A-16909 (Trans.)	
F7	SW-1A-194	*Upper Left Flipper EOS	35	A-16908 (LED)	Ramp Completion
F8	A-17316	*Upper Left Flipper Cabinet		A-16909 (Trans.)	
			36	A-16908 (LED)	Escalator Popper
11	5647-12693-19	Left Lane		A-16909 (Trans.)	
12	20-9663-9	Buy-in	37	A-16908 (LED)	Wheel Exit
13	20-9663-1	Start Button		A-16909 (Trans.)	
14	A-15361	*Plumb Bob Tilt	38	A-17795-6	'Hag' Stand-up
15	5847-12693-19	Right Lane	41	A-17226-4	Two Bank (2)
16	SW-11A-37	Left Jet	42	5647-12693-19	Center Lane
17	SW-11A-37	Right Jet	43	5647-12693-25	† Lockup Upper
18	SW-11A-37	Center Jet	44	5647-12693-25	† Lockup Center
21	A-17238	*Slam Tilt	45	5647-12693-25	† Lockup Lower
22	5643-09288-00	*Coin Door Closed	46	A-17069	† Wheel Opto 1
23	20-9663-B-4	Ball Launch	47	A-17069	† Wheel Opto 2
24	5643-09112-00	*Always Closed	48	A-17069	† Wheel Opto 3
25	5647-12693-19	Left Loop	51	A-16927 (LED)	Right Trough
26	A-17778-15	Popeye "E1"		A-16926 (Trans.)	
27	A-17778-15	Popeye "Y"	52	A-16927 (LED)	Trough 2nd
28	A-17778-15	Popeye "E2"		A-16926 (Trans.)	
31	A-16908 (LED)	Left Popper	53	A-16927 (LED)	Trough 3rd
	A-16909 (Trans.)			A-16926 (Trans.)	

SWITCH LOCATIONS Continued

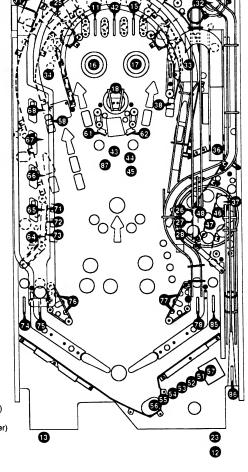


He m	Switch Part #	Where Used
54	A-16927 (LED)	Trough 4th
	A-16926 (Trans.)	
55	A-16927 (LED)	Trough 5th
	A-16926 (Trans.)	
56	A-16927 (LED)	Left Trough
	A-16926 (Trans.)	
57	A-16927 (LED)	Trough Jam
	A-16926 (Trans.)	
58	A-17795-6	'Sea' Stand-up
61	A-17799-4	Left Cheek
62	A-17799-4	Right Cheek
63	5647-12693-19	Escalator Exit
64	5647-12693-21	Animal Dolphin
65	5647-12693-21	Animal Eagle
66	5647-12693-21	Animal Tiger
67	5647-12693-21	Animal Panda
68	5647-12693-21	Animal Rhino
71	A-17799-15	Popeye "P1"
72	A-17799-15	Popeye "O"
73	A-17799-15	Popeye "P2"
74	5647-12693-19	Left Outlane
75	5647-12693-19	Left Flipper Lane
76	SW-1A-114	Left Slingshot (kicker)
	SW-1A-120	(score)
77	SW-1A-114	Right Slingshot (kicker)
	SW-1A-120	(score)
78	5647-12693-19	Right Flipper Lane
81	A-16908 (LED)	Upper Exit to Wheel
	A-16909 (Trans.)	
82	A-16908 (LED)	Upper Ramp Left
	A-16909 (Trans.)	
83	A-16908 (LED)	Upper Ramp Right
	A-16909 (Trans.)	
84	5647-12693-25	Animal Jackpot

5647-12693-25 5647-12693-19 5647-12693-19 5647-12693-25

5647-12693-19

Animal Jackpot Right Outlane Shooter Lane † Lockup Kicker Upper Shot Exit



* Not Shown † Located Under Playfield

SOLENOID TABLE

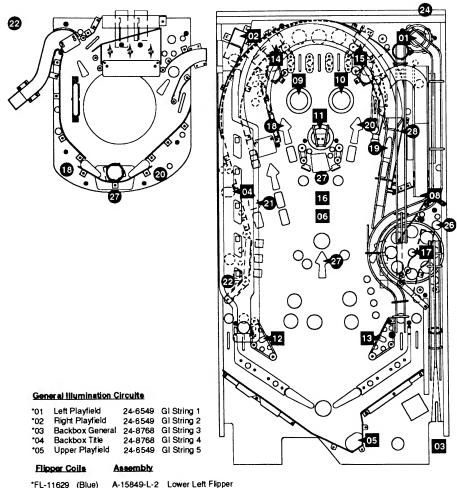
Sol.	Function	Solenoid Type	Vo	tage Conne	ctions	Drive xister	er		tions	Drive Wire	Flashie	Solenoid Part Number Flashlemp Type	
		1,7,7-	Playfield	Beckbox	Cabinet		Playfield	Backbox	Cabinet	Color	Playfield	Beckbox	
01	Right Popper	High Power	J130-1	T	T	Q82	J107-3			Vio-Bm	AE-26-1200		
02	Left Popper	High Power	J130-2		1	Q80	J107-3			Vio-Red	AE-24-900		
03	Ball Shooter	High Power	J130-4			Q78	J107-3			Vio-Org	AE-23-800		
04	Animal Diverter	High Power	J130-5			Q76	J107-3			Vio-Yel	AE-26-1200		
05	Trough Coil	High Power	J130-6		1	Q64	J107-3			Vio-Grn	AE-26-1500		
06	Lockup Kicker	High Power	J130-7			Q66	J107-3			Vio-Blu	AE-23-800		
	Knocker	High Power		J130-8	1	Q68		J107-3		Vio-Blk		AE-23-800	
	Escalator Popper	High Power	J130-9			Q70	J107-3			Vio-Gry	AE-23-800		
	Left Jel	Low Power	J127-1			Q58	J107-2			Bm-Bk	AE-26-1200		
	Right Jet	Low Power	J127-3		I	Q56	J107-2				AE-26-1200		
11	Center Jet	Low Power	J127-4			Q54	J107-2				AE-26-1200		
12	Left Slingshot	Low Power	J127-5			Q52	J107-2			Brn-Yel	AE-26-1200	I	
	Right Slingshot	Low Power	J127-8			Q50	J107-2			Brn-Grn	AE-26-1200		
	Left Gate	Low Power	J127-7			Q48	J107-2			Bm-Blu	A-14406		
	Right Gate	Low Power	J127-8			Q46	J107-2			Brn-Vio	A-14406		
	Lockup Release	Low Power	J127-9			Q44	J107-2			Brn-Gry	AE-26-1500		
	Wheel Motor	Flasher	J126-1			042	J107-6			Blk-Bm	14-7990		
	Upper Playfield Left	Flasher	J126-2			Q40	J107-8			Blk-Red	#906,#89(2)		
	Right Loop Backbox	Flasher	J126-3	J125-5		038	J107-6	J106-5		Blk-Org	#89 (1)	#906 (1)	
	Fight Bluto	Flasher	J126-4			Q36	J107-6			B#k-Yel	#906.#89(2)		
21	Left Loop Blobx.	Flasher	J128-5	J125-6		Q28	J107-6	J106-5		Blu-Grn	#89 (1)	#908 (1)	
	Animal Ramp	Flasher	J128-6	J125-7		030	J107-6	J106-5		Blu-Blk	#906 (2)	#906 (1)	
	Skill Wheel	Flasher	J126-7	J125-8		Q34	J107-6	J106-5		Blu-Vio	#906 (1)	#906 (1)	
	R Popper BlockExB	Flasher	J126-8	J125-9		032	J107-6	J106-5		Blu-Gry	#906 (1)	#908 (1)	
	Not Used	Gen. Purpose			1	Q26				Blu-Bm			
	Ramo Jackool	Gen. Purpose	J122-2	J124-2		024	J107-8	J106-5		Blu Red		#906 (1)	
	Lockiaw Arrow	Gen. Purpose	J122-3	J124-3		022	J107-8	J106-5		Blu-Ora		#906 (1)	
28	Escitr BlobxTurtle	Gen. Purpose	J122-4	J124-4		Q20	J107-6	J106-56	L	Blu-Yel	#908 (1)	#906 (1)	
	General Illumination												
01	Left Playfield	G.I.	J121-1			Q18	J121-7			Wht-Brn	24-6549		
02	Right Playfield	G.I.	J121-2			Q10	J121-8			Wht-Ora	24-6549		
03	Backbox General	G.I.		J120-3		Q14		J120-9		Wht-Yel		24-8768	
	Backbox Title	G.I.		J120-5		Q16		J120-10		Wht-Gm		24-8768	
05	Upper Playfield	G.I.	J121-6			Q12	J121-11			Wht-Vio	24-6549		
			Voltage C	onnections	Drive Trans	sistors	Drive C	onnections	Drive Wire	Colors	Coil Part	Coil	
	Flipper Circuits		Play	field	Power	Hold	Pla	wfield	Power	Hold	Number	Colors	
		Lwr. Lt. Power	J907-7	(Gry-Yel)	Q3		J9	02-9	Blu-Gry				
	Lower Left Flipper	Lwr. Lt. Hold		(Gry-Yel)		Q9		02-7		Org-Blu	FL-11629	BLUE	
		Lwr. Rt. Power	J907-9	(Blu-Yel)	Q4		J9	02-13	Blu-Vio				
	Lower Right Flipper	Lwr. Rt. Hold		(Blu-Yel)		Q11	J9	02-11		Org-Grn	FL-11629	BLUE	
		Up Lt. Power	J907-1	Gry-Yeb	Q1			12:3	Blk-Blu]	I	
	Upper Left Flipper	Up LI. Hold		Gry-Yel)		Q5		12-1		Org-Gry	FL-11722	GREEN	
		Up Rt. Power		(Blu-Yel)	02			02-6	Blk-Yel		1 .		
	Upper Right Flipper	Up Rt. Hold	J907-4	(Blu-Yel)		Q7	J9	02-4		Org-Vio	FL-11722	GREEN	

J1XX = Power Driver Board; J9XX - Fliptronic II Board; 24-6549 = #44 Bulb; 24-8704 = #89 Bulb; 24-8788 = #555 Bulb; 24-8802 = #906 Bulb

SOLENOID/FLASHER LOCATIONS

<u>hem</u>	Coil/Flasher Number AE-26-1200	Assembly Number A-17258	<u>Description</u> Right Popper	item 16	Coil/Flasher Number AE-26-1500	Assembly Number A-17505	Description + Lockup Release
01 02	AE-24-900	A-17230 A-17180	Left Popper	17	14-7990	A-17623	Wheel Motor
03	AE-23-800	A-14525	Ball Shooter	18	24-8802	A-12336-1	Upper Playfield Left (2)
04	AE-26-1200	A-17251	Animal Diverter		24-8704	A-17803	D: 111 B11 (0)
05	AE-26-1500	A-16765	Trough Coil	19	24-8704	A-17803	Right Loop Backbox (2)
06	AE-23-800	A-17505	† Lockup Kicker	20	24-8802	A-12336-1	Fight Bluto (2)
07		B-16086-1	Knocker		24-8704	A-17803	
08	AE-23-800	A-17774	Escalator Popper	21	24-8704	A-17803	Left Loop Bkbx. (2)
09	AE-26-1200	A-9415-2	Left Jet	22	24-8802	A-12336-1	Animal Ramp (3)
10	AE-26-1200	A-9415-2	Right Jet		24-8802	A-17626-4	
11	AE-26-1200	A-9415-2	Center Jet	23	24-8802	A-12336-1	Skill Wheel (2)
12	AE-26-1200	A-17809	Left Slingshot	24	24-8802	C-13337	R. Popper Bkbx. Ex.B. (2)
13	AE-26-1200	A-17809-1	Right Slingshot	25			Not Used
14	A-14406	A-17796	Left Gate	26	24-8704	A-17803	Ramp Jackpot (2)
15	A-14406	A-17796	Right Gate	27	24-8704	A-17803	Lockjaw Arrow (3)
			•	28	24-8802	A-12336-1	Escalator Bkbx. Turtle (2)

SOLENOID LOCATIONS Continued



*FL-11629 (Blue) A-15849-L-2 Lower Left Flipper *FL-11629 (Blue) A-15849-R-2 Lower Right Flipper *FL-11722 (Green) A-16976-L-1 Upper Left Flipper

*FL-11722 (Green) A-16976-L-1 Upper Left Flipper *FL-11722 (Green) A-16976-R Upper Right Flipper

Square indicates coil, P.C.B. or Magnet
♠ Circle indicates flesher

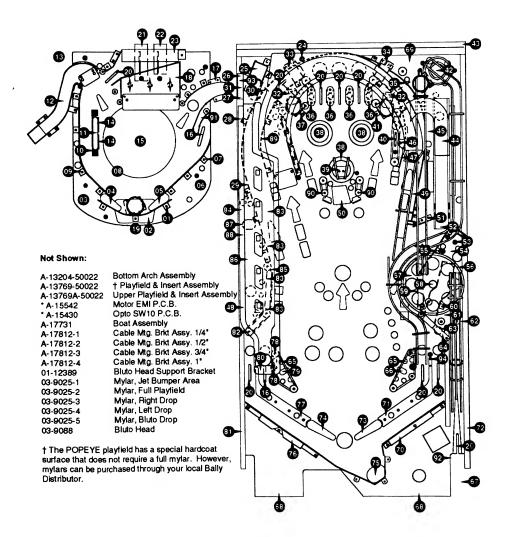
*Not Shown †Located Under Playfield

24-6549 = #44 Bulb 24-8704 = #89 Bulb 24-8768 = #555 Bulb 24-8802 = #966 Bulb

UPPER PLAYFIELD PARTS LIST

Description item Part Number 01-12173 Ball Guide Decal Ring Cover Assembly A-17639 Upper Level Drain Assembly A-17567 Wheel Motor Assembly A-17623 Left Cover Assembly A-17648 A-17783 Target & Cable Assembly Flipper Assembly Complete A-16976-L-1 A-17402 Wheel Drop Guide Assembly 60 Small Flipper & Shaft 20-9732-5 Playfield Plastic Assembly 61 A-17626-5 Flipper Assembly Complete A-16976-R Mounting Post 3.44" 62 02-4765-7 Small Flipper & Shaft 20-9732-5 Post Adjustment Plate 63 * 01-12214 A-17649 Right Cover Assembly Gate Assembly 64 A-17339 01-11815 Ball Guide Kicker Count Świtch Assembly 65 A-17801 Stud Plate Assembly (5) * A-17838 A-17811 Slingshot Kicker Assembly 66 01-11816 Ball Guide A-17809-1 Coil & Bracket Assembly 01-12171 Ball Guide 10 Kicker Assembly 67 A-14525 Light Cover Assembly A-17647 Playfield Hanger Bracket 01-9211 68 12 A-17736 Exit Ramp Assembly Playfield Plastic Assembly 69 A-17626-8 Playfield Plastic Assembly A-17626-4 13 Ball Guide 70 01-12286 Stationary Target, Red 14 A-17226-4 A-17577-2 Flipper Guide & Plastic Assy. 71 15 03-8947 Upper Playfield Window 72 01-11806 Right Playfield Rail Rollover Switch Assembly 16 A-17813-1 A-15849-R-2 Flipper Assembly Complete 73 Upper Right Exit Assembly A-17403 17 Flipper & Shaft Assembly 20-9734-5 A-17462 Upper Level Ramp Assembly 18 74 A-15849-L-2 Flipper Assembly Complete Light & Bracket Assembly 19 A-17817 Flipper & Shaft Assembly 20-9734-5 A-17813 Rollover Switch Assembly 20 Outhole Ball Trough Assy. 75 A-16765 Opto Bracket Assembly 21 A-17738 76 01-12448 Ball Guide Opto Bracket Assembly 22 A-17737 Flipper Guide & Plastic Assy. A-17577-1 Upper Ramp Deflector Assy. 77 A-17769 23 Standoff 1 9/16 02-4436-25 Mounting Post 3.13* 02-4765-6 24 Ball Popper Assembly Cover, Left Ball Popper Slingshot Kicker Assembly 79 A-17811 25 A-17180 A-17809 Coil & Bracket Assembly 01-12460 Ramp Ball Deflector 01-12166 02-4176-30 Standoff 1 7/8° 26 Left Playfield Rail 81 01-11805 Standoff 3 3/16 02-4176-54 Post Adjustment Plate * 01-9510 82 27 02-4176-54 Standoff 3 3/16* Switch Assembly A-17906 83 Standoff 2.94° 02-4968-1 28 02-4968-1 Standoff 2.94° 01-11818 Ball Guide 29 12-7183 Ball Guide Wire 85 Standoff 1 7/8* 02-4176-30 Playfield Plastic Assembly A-17626-2 86 Mounting Post 4.31* 02-4765-8 Coil & Bracket Assembly 87 A-17251 Bracket, Left Drop Ramp 01-12133 31 Entry Ramp Rollover 02-4724 **Ball Deflector Bracket** 01-11160 * 12-6227 Hair Pin Clip A-17797-2 Special Ball Gate Assembly 5 Position Kicker Assembly 88 A-17560 Ball Gate Actuator Assembly A-17796 Ball Guide 01-11814 Special Ball Gate Assembly A-17797-1 Mounting Post 90 02-4903 Ball Gate Actuator Assembly A-17796 Ball Gulde 01-12305 91 Ball Guide 01-12387 02-12417 **Ball Guide** 92 Light Hood, Yellow 03-8318-16 Cover Bracket 93 01-12461 Ramp, Left Ball Popper 37 01-11921 Support Post (8) 02-4020 Jet Bumper Coil Assembly A-9415-2 Jet Bumper Assembly B-9414-3 Jet Bumper Switch Assembly B-12030-2 03-8254-10 Jet Bumper Cap, Blue A-17626-7 Playfield Plastic Assembly Ball Guide Wire 1 1/4" 40 12-6466-5 Ramp, Right Ball Popper 01-11973 Ball Popper Assembly 42 43 A-17258 Back Rail Assembly A-17129 Back Panel Assembly A-17401 A-17777 Guide Ramp Assembly 45 Opto Bracket Assembly A-17536 Mounting Post 3.13* 46 02-4765-6 47 01-11817 Ball Guide 02-4968-1 Standoff 2.94° 48 Playfield Plastic Assembly 49 A-17626-3 Center Ball Lock Assembly 50 A-17505 Ball Guide 51 01-12329 Kicker Coil Assembly 52 53 * A-17774 Mounting Post 3.44° 02-4765-7 A-17626-1 Playfield Plastic Assembly

UPPER PLAYFIELD PARTS LOCATIONS



55

56

01-12330

A-17895

A-17145

Ball Guide

Wheel Ring Assembly Rotating Plate Assembly

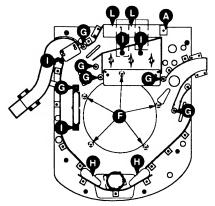
^{*} Located Under Playfield.

RUBBER PARTS

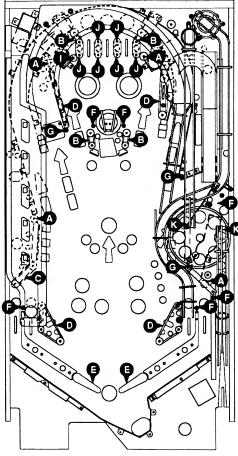
LOWER PLAYFIELD PARTS

ltem	Part Number	Description	•
1.	01-9211	Pffd. Hanger Bracket (2 Used)	
2.	A-16765	Outhole Ball Trough Assembly	
3.	A-15849-R-2	Flipper Assembly, Lwr, Right	
4.	01-11781	Leg Support (2 Used)	
5.	A-17811	Kicker Arm (Slingshot) Assy., Right	
	A-17809	Coil & Bracket Assembly	
•	10-128	Spring	
6. 7.	A-15542 A-17623	Motor EMI Assembly Wheel Motor Assembly	
7. 8.	A-17623 A-17505	Center Ball Lock Assembly	
9.	A-17600	5-Lamp PC Board Assy.	
10.	A-17749-2	Plfd. Slide Mechanism, Right	5 00
11.	01-11973	Right Ramp-Ball Popper	H (8)
12.	A-17258	Ball Popper Assembly	
13.	A-9415-2	Jet Bumper Coil Assembly	0 0 0
14.	A-17624	3-Lamp PC Board Assy.	
15.	A-17796	Ball Gate Aduator Assembly (2 Used)	
16.	A-17180	Popper Assembly - Left	0 a
17.	01-11921	Left Ramp-Ball Popper	n 0 0
18.	A-17749-1	Plfd. Slide Mechanism, Left	
19.	A-17251	Coil & Bracket Assembly	LA AND TO THE STATE OF THE STAT
20.	A-17603	3-Lamp PC Board Assy.	(a) (b) (b) (c)
21.	A-17602	18-Lamp PC Board Assy.	
22.	A-17811	Kicker Arm (Slingshot) Assy., Left	
	A-17809-1	Coil & Bracket Assembly	
20	10-128	Spring	
23.	A-15849-L-2	Flipper Assembly, Lwr. Left	
			19 4 4
Low	er Playfield Pa	arts on Mini-Playfield:	71
24.	A-16976-R	Flipper Assembly, Right	
25.	A-16976-L-1	Flipper Assembly, Left	18-3
	25	24	
,	/ <u>}</u>		
(2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
- 1	163		
	1	6	**************************************
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ITEM	PART#	DESCRIPTION	QTY.
A.	23-6300	5/16" Ring	5
B.	23-6301	3/4" Ring	4
C.	23-6303	1 1/4" Ring	1
D.	23-6306	2 1/2" Ring	4
E.	23-6519-4	Flipper Ring-Red	2
F.	23-6535	Grommet	13
G.	23-6552	Yellow Sleeve	9
H.	23-6553-4	Small Flipper Ring	g 2
I.	23-6556	Black Sleeve	5
J.	23-6641-1	15/64" Ring	6
K.	23-6686	Bumper Pad	2
1.	23-6702	Bumper Plug	2



Underside of Mini-Playfield

RAMPS

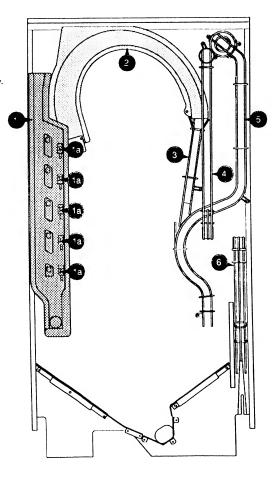
Item Part Number Description

1.	A-17404	Main Ramp Assembly
a)	A-17906	U-Switch Subminiature Assy
2.	A-17177	Ramp Assembly
2	12.7184	Wire Ramn - Center

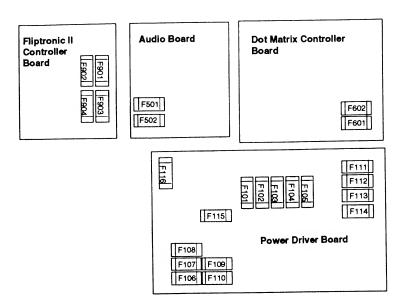
A-17406 Wheel Feeder Wire Ramp Assy.

12-7132 Ramp, Right 5.

A-17405 Wire Ramp Chute Assembly



FUSE LIST



Audio Board

3A, 250V, S.B. F501 -25V Circuit F502 +25V Circuit 3A, 250V, S.B.

Dot Matrix Controller Board

F116 +12V Secondary

3/8A, 250V, F.B. F601 +62V Circuit

F602 -113V and -125V Circuits 3/8A, 250V, F.B.

Power Driver Board 3A, 250V, S.B. (Not Used) F101 Left Flipper F102 Right Flipper F103 Solenoid #25-#28 3A, 250V, S.B. (Not Used) 3A, 250V, S.B.

F104 Solenoid #9-#16 3A, 250V, S.B. F105 Solenoid #1-#8 3A, 250V, S.B. F106 G.I. #5 Wht-Vio 5A, 250V, S.B. 5A, 250V, S.B. F107 G.I. #4 Wht-Grn F108 G.I. #3 Wht-Yel 5A, 250V, S.B.

5A, 250V, S.B. F109 G.I. #2 Wht-Org F110 G.I. #1 Wht-Brn 5A, 250V, S.B. 5A, 250V, S.B. F111 Flasher Secondary F112 Solenoid Secondary 7A, 250V, S.B. 5A, 250V, S.B. F113 +5V Logic F114 +18V Lamp Matrix

8A, 32V, N.B. 3/4A, 250V, F.B. F115 +12V Switch Matrix 3A, 250V, S.B.

Fliptronic II Controller Board

F901 Upper Right Flipper F902 Upper Left Flipper 3A, 250V, S.B. 3A, 250V, S.B. 3A, 250V, S.B. F903 Lower Right Flipper F904 Lower Left Flipper 3A, 250V, S.B.

Line Filter Domestic Game

8A 5A, S.B. Foreign Game

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FOR SERVICE... CALL your authorized BALLY Distributor MIDWAY Manufacturing Company 3401 N. California Chicago, IL 60618

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CAUTION: Transport this game ONLY with hinged backbox DOWN!